BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work:-Detailed Estimate for Providing Special Repairs to Coffee Board Layout Park Pathway Lighting in ward no 7

Budget Head .....

Division No..... Estimate No. 24/17-18 For Rs. 1000000.00

Sl. No.	SR Page & SL No	Description of Work	Qty.	Rate Rs.	Unit	Amount
1	27/4.35.1	LED Street light.Supply of LED Streetlight with pressure die cast aluminum housing body with optimal heat sink for better thermal dissipation. Diffuser with Injection moulded & is made of polycarbonate material with high transmission index, delivering superior light output. Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminare > IK08. Power Factor >0.9 with mains Current should not be greater than 0.1A to 0.7A & Surge Protection- Min 4KV along with Over voltage/Overload, short circuit/ miswiring protection. Compatible for pole mounting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Over load & Short circuit protection ensures reliable operation in spite of problem in output side. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with .....W System Power consumption. LED Efficiency>130lm/w at 1W & Fixture Efficiency >80lm/w with nominal CRI >75. Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008 . Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 5 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED source manufacture. Suitable for B1/B2 Roads as per IS 1944 Part I & Part II.LED Streetlight 1)LED Streetlight 24watts LED Streetlight 65watts	40	6912.00	Nos	276480.00
2	27/4.35.3	LED Streetlight 65watts	13	18720.00	Nos	243360.00
3	36/5.18.3	Supplying, and fixing of Hot dip Galvanized M.S.Bracket suitable for out door luminaries and mounted on Octagonal pole using necessary bolts, nuts etc., complete.Single Arm Bracket with 2000mm Standard 40/50MM dia	40	2760.00	each	110400.00
4	108/17.1.2	Supplying & fixing of 32 mm dia class A GI pipe bracket up to 2 mtrs long bent at suitable angle and fixing to this bracket 1x40/2x40 or rail or RCC pole/wall using suitable clamps, bolts, and nuts and wiring using suitable capacity wires complete. Using 32mm dia G.I pipe	11	893.00	Each	9823.00
5	9 32 / 9	Supplying and fixing electro mechanical timer (without contactor) using necessary bolts, nuts and waqshers etc.. Group A, PWD Elec SR 2006-07.	1	4200.00	Each	4200.00
6	6.12.4	Supply and fixing of 4-pole power contactor with NO/NC contacts on existing wood / panel board using necessary bolts, nuts, washers and wiring etc., complete. d) 100-125 Amps	1	9915.00	Each	9915.00

Administrative Sanction for Rs. 10.00 Lakhs TEN LAKHS ONLY is accorded under head P3290 14th FINANCE COMMISSION WORKS PROVIDING STREET LIGHT AND MAINTENANCE Registered as EE No. 23/17-18 Subject to conditions contained in enclosed memo No. EE/ELE/42/AS23/2017-18 dt 06.01.18

Executive Engineer

7	28/4.3 7.4	Supplying of LED Floodlight with .....W System Power consumption pressure die cast aluminum housing with powder coating with IP 65 protection. 1, 200-275V voltage with electronic Driver, PF>0.9, should meet ANSI 2G Vibration test, Compliance to UL/CE with Class I. System rating shall be 50K hrs. @ Lumen maintenance of 70%, system efficacy > 80lm/w. Over load & Short circuit protection ensures reliable operation in spite of problem in output side. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with .....W System Power consumption. LED Efficiency>130lm/w at 1W & Fixture Efficiency >80lm/w with nominal CRI >75. Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008. Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 5 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED manufacturer.LED Floodlight 150W	4	23577.00	Nos	94308.00
8	47/6.16 .6	Supplying and fixing miniature circuit breakes on exisiting MCB distribution boards using necessary fixing materials and wiring complete as required. B) 40-63Amps TPN, Group 'A'	4	1936.00	Each	7744.00
9	6/2.6.7	Wiring for lighting/power circuit using one of PVC insulated 1100v grade, multis and **Copper** conductor single core cable in open or consealed system of wiring.I Group A Materials.g)16 sqmm	10	132.00	Per Mtr	1320.00
10	6/2.6.2	1.5 sqmm	400	15.90	Per Mtr	6360.00
11	55/7.1	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 122 mm dia	1	2727.00	Each	2727.00
12	45/6.7. 4	Supplying and fixing of Procelain fuse channel with cut out on exisiting wooden/panel using necessary nuts, bolts and washers etc., complete.d) 100 Amps	6	360.00	Each	2160.00
13	62/7.1 2.3	Supplying and fixing of class A (medium duty) GI pipe of wall thick ness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class. b)50mm	6	391.00	Per Mtr	2346.00
14	49/6.40 .2	Fabricating supplying and mounting MS box made out... SWG suitable Ifor floor/wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size cdlamps with mecessary cable entry pipe with gland and box should be finished with 2 cdoats of red oxide primer paint and finally finished with approved colour enameled metal pain etc., complete. b)16 swg	75000	0.33	Sqcm	24750.00
15	49/6.3 9.1	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. And M.S. flat... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint. a)40X40X6mm	9	263.00	Per Mtr	2367.00

TECHNICAL
Rupees ... TEN LAKHS ONLY 10.00 Lakhs
Under ... P3240. 14th FINANCE COMMISSION WORKS providing Street light
Registered as EE( )No. ...
Subject to condition/s contained in
Passed vide EE( )No. EE/ELE/42/15/ 01/178
Dt. 06.01.2018
... Sanctioned
EE/ELE/42/AS/23/2017-18
Dated 06.01.2018 10.00 lakhs
Executive Engineer

6	55/7.3	Supplying and running of GI/Copper strips for grounding connections, using necessary fixing materials as required.I GI Strip. B)25X3mm	5	77.00	Per Mtr	385.00
17	62/7.13.3	Supplying and fixing L.T. cast Iron pot heads suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc. 25 Sq mm	2	362.00	each	724.00
18	55/7.4.5	Supplying of LT UG cable having aluminium conductor PVC insulated, sheathed, galvanished, steel wire/steel tap armoured cable with PVC outer sheating 1.1 KV class.I. Class 'A' PVC Cable. 4 core 16 sqmm	300	140.40	Per Mtr	42120.00
19		3.5 core 25 sqmm	50	165.00	Per Mtr	8250.00
20	61/7.8.2	Labour charges for laying of 1.1 KV class UG cable when supplied agency in existing trench GI pipe / stoneware pipe / on wall /on pole as required. I. In existing trench/duct. 6 sqmm to 16 sqmm	300	10.80	Per Mtr	3240.00
21		b)25sqmm to 75 sqmm	50	16.00	Per Mtr	800.00
22	62/7.9.1	Digging of trench of 0.6 m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc.,complete. (As perCivil SR KSRB I-2, P-7).a) In soil (ordinary)	275	78.00	Per Mtr	21450.00
23	pwd sr 14-15	Providing Rcc Pole pedstal of Size 0.5x0.5x1.6 Mtrs Including digging of pit, tor steel, anchoring bolts nuts ,templates ,Centring,1;4;8base concrete,1;2;4pedestal concrete and etc coplete as per the data sheet enclosed	4	4199.00	Each	16796.00
24	7.6.5	Supplying of 1.1KV grade Aerial Bunched Cable Stranded & Compacted Aluminum Phase Conductor, and Stranded Messenger Conductor with all aluminum Alloy, Phase Conductor is insulated with XLPE Compound, insulated Messenger with specified IS-14255:1995 & confirming to GTP of GROUP-A.3 X 25 + 1 X 25 + 1 X 16 SQ.MM	50	177.00	Mtrs	8850.00
25	Bes SR	Stringing of 1.1kv LT Arial Bunched Cable, BESCOM SR	50	10.30	Mtrs	515.00
		Total Rs				**900875.00**
		KRIDL Charges @ 11%				99096.25
		BESCOM DEPOSITE & Meter CHARGES				28.75
		Total				**1000000.00**

CERTIFICATE

1. The Place was inspected and work is essential.
2. The Provision made in the estimate is adequate and are necessary.
3. The Work comes in the BBMP limit and is legitimate charges on the Corporation Funds.
4. The rates in the Estimate is based on PWD (Elec) SR of 2014-15 /lowest quotation rates/ approved Rates

K.N. Babu

Asst. Engineer (Elec)

Asst. Exe.Engineer (Elec)
Sub-Division No.
Bruhat Bangalore Mahanagara Palike

EXECUTIVE ENGINEER (ELEC)
YALAHANKA DIVISION
BRUHAT BANGALORE MAHANAGARA PALIKE